

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO37737 Receipt Dates from 9/19/2017 to 9/19/2017

Total Received Quantity:
Total Qty to Inspect (PO U/M):
Total Reject Quantity:
Total Receipt Value:
Total Balance Due Quantity:



DELIVERY - CLIENT

Copy

CO00050582

ACTIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND ALU 4 1/4 6061-T6 RANDOM NS RAL-414-V 8915 DAS 5 9-89 1 X 36" HEAT: 201707789 AC9213-TY-18/09	50.00	3.00	PI_\$CLB							
2 FLAT ALU 1 X 12 6061-T6 (12) FAL-112-12 2436 1 X 12' HEAT: (201704837 changer) * 5 9-89 AC9000-SA-18/09	169.34	12.00	PI_\$CLB							
3 ALU PLATE 5/8 6061-T651 RANDOM PAL-586061-V 4298 2 X 36" X 111" HEAT: 6151024 AC9213-TY-18/09	505.12	56.00	PI2							

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Copy CO00050582

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CL10001056

Date 2017/09/12

Delivery date 2017/09/15

Your order N° 37737

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
4 ALU SHEET .051 (16G) 6061-T6 (4 X 12) FEAL-0514126061 3145 1 X 4' X 12' HEAT: _____	34.46	48.00	P12_\$CLB						
5 ALU SHEET 1/8 6061-T6 (4 X 8) FEAL-18486061 4256 3 X 4' X 8' HEAT: _____	169.34	96.00	P12_\$CLB						
6 SHEET 4130 N .050 RANDOM NS FE4130-050-V 8923 3 X 36" X 72" HEAT: _____	111.00	54.00	P12_\$CLB						

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 1 039.26

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Y

M

D

Total (\$CAD)

Customer's Signature

Date

#0420

50202



Can Do.

Service Center Metals

 5850 Quality Way
 Prince George, VA 23875

 CERTIFIED INSPECTION REPORT AND TEST RESULTS
 FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
289111	11

CERTIFICATION
ASTM-B221-14 No Stencil
SPECIFICATION
AMS-QQA-200/8 Rev-A

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
Samuel & Fils & Cie Ltee	327862	PL0741	3/30/2017
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SALESPERSON
Metaux Specialises Samuel	C74189	6061-T6511	D. Schroeder (Canada)
Quantity Certified	2,032 lbs	12 pcs	DESCRIPTION
			PL 1.000 x 12.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201704837	3/30/17	min 50.40 max 50.40	min 46.50 max 46.50	min 16.60 max 16.60

 DAS 5
 9-89

R052415-716

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Others	Melt Source:
001M170313A	201704837	6061	0.75	0.38	0.33	0.10	0.89	0.10	0.07	0.03	97.36	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 3/30/2017

Rev 9/2/16

PAGE 18V

MILL TEST/QUALITY CONTROL CERTIFICATE

ALNAN ALUMINIUM INC.

No.55 TingHong Road Nanning, Guangxi, 530031, China

10

CUSTOMER		ADDRESS		PRODUCT TYPE														DATE:February 6,2016		
EMPIRE RESOURCES, INC.		2115 LINWOOD AVENUE,2ND FLOOR,FORT LEE,NJ 07024 . USA		Aluminum Alloys Sheet																
UNIQUE Lot Number	HEAT Number	Dimension (mm)	Dimension (inch)	Act Thick (mm)	Act Thick (inch)	Weight MT	Alloy	Temper	Al	Cu	Mg	Si	Fe	Mn	Zn	Ti	Cr	Elong (%)	UTS ksi	Yield ksi
Standard	Standard	0.152-0.175	0.006-0.007				6061	T6	remainder	0.15-0.40	0.3-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	4min	42min	35min
Standard	Standard	0.203-0.229	0.008-0.009				6061	T6	remainder	0.15-0.40	0.3-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	6min	42min	35min
Standard	Standard	0.254-0.508	0.010-0.020				6061	T6	remainder	0.15-0.40	0.3-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	8min	42min	35min
Standard	Standard	0.533-6.325	0.021-0.249				6061	T6	remainder	0.15-0.40	0.3-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	10min	42min	35min
201602050701	6151024	3.175*1219.2*2438.4	0.125*48.0*96.0	3.080	0.121	1.610	6061	T6	remainder	0.28	1.05	0.63	0.21	0.13	0.07	0.02	0.24	15.5	45.0	39.2
201602050702	6151024	3.175*1219.2*2438.4	0.125*48.0*96.0	3.080	0.121	1.610	6061	T6	remainder	0.28	1.05	0.63	0.21	0.13	0.07	0.02	0.24	15.5	45.0	39.2
201602050703	6151024	3.175*1219.2*2438.4	0.125*48.0*96.0	3.080	0.121	1.610	6061	T6	remainder	0.28	1.05	0.63	0.21	0.13	0.07	0.02	0.24	15.5	45.0	39.2

ORIGIN OF GOODS AS ALNAN ALUMINIUM INC.

ACTUAL MILL CHEMICAL AND MECHANICAL PROPERTY TEST REPORTS IN IMPERIAL NOMENCLATURE REQUIRED PER SKKD

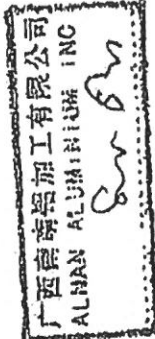
MATERIAL CONFORMS FOR ALLOY 6061, T6, AS PER AMS QQ-A-250/11, AMS 4027, ASTM-B209-10 SB-208 AND ALUMINIUM ASSOCIATION STANDARDS-2009 IN ALL ASPECTS.

COUNTRY OF MELT AND MANUFACTURE: CHINA

Issued by QA51

Reviewed by QA10

1/1





BRIGHTSTEELS

LIMITED

MANUFACTURERS OF BRIGHT STEEL BARS

NORTON WORKS · MALTON · NORTH YORKSHIRE · ENGLAND · YO17 9BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695856

E: export@bright-steels.com

Certificate Of Analysis

Date : 22/02/2017

Number : 108633

VAT Registration No. 166 8255 35

Invoice To:

Deliver To:

UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER. CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	DESPATCH WEIGHT	UOM	QUANTITY
------------	-------------------------------	----------	----------	-----------------	-----	----------

YOUR ORDER NO. : B 97899

OUR ORDER NO. : 172235

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018

IN 12'12"3" LENGTHS

TARIFF NO. 7215 50 11

ITEM CODE - V731331

3	1/4" X 3/4"	3071118	PRD-11754701	1400	LBS	635 KGS
---	-------------	---------	--------------	------	-----	---------

CAST	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %
3071118	0.155	0.235	0.802	0.012	0.012	0.121	0.060	0.204	0.227	0.009	0.020

Signed :

#2910

FCR-385-12

PO. 8919

Customer Name

Customer PO#

Invoice No

Shipper No

Heat Number

ACIER OUELLETTE INC. DIV SALABE

AC8919

90593

84846

161503



NUEVA INCAL, S. A.
aceros calibrados

Cervantes, 24 - Apartado 13
48200 GERNIKA - BIZKAIA Spain
Teléfono: (34) 94 625 17 12 - 16
Fax: (34) 94 625 46 27
nueva@incal.com
www.nueva.com



CERTIFICADO DE CALIDAD

CERTIFICAMOS: Que el material suministrado con cargo a los pedidos de referencia y amparado por nuestro albarán N° EX/4.511 y Fra. N° A/21.801 corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

S/.Pedidos N°	Composición Química de la colada									Caract. mecánicas laminado		
	MATERIAL	CALIDAD	COLADA	C. %	Mn. %	Si. %	S. %	P. %		Re N/mm2	Rm N/mm2	A %
MON-54349	1 X 1		583061	0,17	0,72	0,16	0,018	0,019		321,00	496,00	29,00
MON-54349	1-1/4 X 1-1/4		7855	0,17	0,75	0,19	0,009	0,016		448,00	293,00	37,20
MON-54349	1-1/2 X 1/4		47395	0,15	0,76	0,16	0,032	0,014		349,00	499,00	37,00
MON-54349	2 X 1/4		580842	0,16	0,72	0,17	0,023	0,014		330,00	500,00	30,00
MON-54349	4 X 2		162442	0,20	0,70	0,17	0,004	0,017		545,00	573,00	15,00
MON-54349	3-1/2 X 1/2		161629	0,16	0,79	0,18	0,002	0,021		329,21	454,32	24,66
MON-54349	5 X 3/8		161503	0,17	0,80	0,16	0,004	0,023		548,00	576,00	13,00
MON-54349	5 X 1		161962	0,16	0,84	0,18	0,006	0,018		548,00	575,00	15,00
MON-54349	5 X 1-1/2		161915	0,17	0,78	0,19	0,004	0,021		544,00	572,00	14,00
MON-54349	4 X 1		580133	0,16	0,73	0,18	0,022	0,015		320,00	490,00	32,00
MON-54349	6 X 3/8		160518	0,16	0,68	0,16	0,007	0,016		552,00	579,00	8,00
MON-54349	6 X 1/2		161361	0,18	0,73	0,23	0,006	0,017		558,00	586,00	13,00
MON-54349	6 X 5/8		152780	0,16	0,85	0,19	0,004	0,011		544,00	570,00	9,00
MON-54349	6 X 1		161367	0,16	0,82	0,17	0,004	0,017		551,00	578,00	14,00
MON-54349	8 X 1/2		162494	0,16	0,79	0,17	0,009	0,012		567,00	595,00	14,00
MON-54349	8 X 1		161036	0,20	0,74	0,19	0,006	0,016		565,00	593,00	14,00

Gernika, 30 de Noviembre de 2016

Responsable de Calidad





CANAL-WHITBY
1 GERDAU CT
WHITBY, ON L1N 5T1
Canada

CUSTOMER SHIP TO
LES ACHERS TRANSEC 1997 LTEE
935 DU HAVRE BLVD
SALABERRY-DE-VALLEE/EE DOQ
J6S 5L1
Canada

CUSTOMER BUILD TO
LES ACHERS TRANSEC 1997 LTEE
4054 ROUTE LE CORNUISIER
L'AVAIL/OC HTL 5R2
Canada

SALES ORDER
5149135000510

CUSTOMER MATERIAL N°

CUSTOMER PURCHASE ORDER NUMBER
CA4706K5M0P

BILL OF LADING
1102-00000-0046

DATE
08/28/2017

GRADE
GCMULT

SHAPE / SIZE
Angle / 3X1X1/4

CHEMICAL COMPOSITION
 $\frac{C}{\%}$ 0.14
 $\frac{Mn}{\%}$ 0.80
 $\frac{P}{\%}$ 0.019
 $\frac{S}{\%}$ 0.026
 $\frac{Si}{\%}$ 0.20
 $\frac{Cu}{\%}$ 0.35
 $\frac{Ni}{\%}$ 0.10
 $\frac{Cr}{\%}$ 0.17
 $\frac{V}{\%}$ 0.014
 $\frac{Nb}{\%}$ 0.001

MECHANICAL PROPERTIES
Elong
30.00
31.30
C_{UT}
8.000
8.000
Y_{TS}
71724
72028
Y_{TS}
495
497
Y_{SD}
54000
54126
Y_{TS}
372
373

COMMENTS / NOTES

This grade meets the requirements for the following grades:
ASTM Grades: A36, A572-50, A572-50, A709-50, A709-50
CSA Grades: 44W, 50W
ASME Grades: SA333-36, SA333-50
ASME Grades: SA36

The above figures are certified chemical and physical test results as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CNTR complies with EN 10204 3.1

Markery

BLANK OR VAI AMANGHI
QUALITY DIRECTOR

Phone: (416) 769-1014 Email: Blankar.Yalamov@gerdau.com

Leonardo Nolas

LEONARDO NOLAS
QUALITY ASSISTANT MGR

Phone: (905) 678-8811 EXT 4053 Email: Leonardo.Nolas@gerdau.com

A-3314-20

48609

CD 47906

Page 1/1

50582

LES ACIERS OUELLETTE INC.
BARRE RECT. ALUM ECONOPLT 6061-T6511
1.00" X 12.00" X 144.0000"
PART NO.

PO/Rc1 OUI-75127
Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

Certificate of Mill Test Results
RE: VIM-469541 003
de l'analyse faite par un laboratoire qualifié.
SIGNÉ PAR: LUCY TRUGLIO
12/04/16
Pg. 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-633551-9		CUSTOMER PART NUMBER W73/STK		PRODUCT DESCRIPTION: 1.000 X 12.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 690509	LINE ITEM: 009	SHIP DATE: 11/20/2015	KAISER LOT NUMBER: Z00014100	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 6.000 PCS	DL NUMBER: 613952	DIAM/DAF/THKNS. 1.000	WIDTH: 12.000	LENGTH: 12.000 FT
SHIP TO:			SOLD TO:		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00014100	0001	1	45.5	41.4	15.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.30	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
105574	.77	.31	.29	.10	.95	.09	.05	.02	.00	.00	.00	.01	.22

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SH221 1998 SECT II AMS-CC A-200/BA UNS-A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 30204344
Kaiser Order Number: 690509
Line Item: 009

#2586

FAL-3412-12

48570

PO 8466

Certificate of Mill Test Results

ACTER OULETTE DIV. VALLEYFIELD
 BARRE RECT. ALUM E CONOPLT 6061-T6511
 .750" X 12.00" X 144.0000"
 PART NO.

PO/ALAC 00008466

Nous certifions que le document reproduit ci-dessous
 est une copie conforme du rapport fourni par le
 fournisseur du matériau ou les données résultent

de l'analyse effectuée par nos laboratoires
 de contrôle de qualité.

RE: VIM SENS

PAGE

BW

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
 FABRICATED PRODUCTS, LLC
 5205 KAISER DRIVE
 KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER		CUSTOMER PART NUMBER		PRODUCT DESCRIPTION		
VIM-641698-3		W68/STK		750 X 12.000 PRECISION WIDE BAR		
KAISER ORDER NUMBER	LINE ITEM	SHIP DATE	KAISER LOT NUMBER	ALLOY	TAPER	
6032303	003	06/02/2017	Z00098169	6061	T6511	
WEIGHT SHIPPED	QUANTITY	BI NUMBER	DIAM./DEPTH-KNS	WIDTH	LENGTH	
1016.000 LB	8.000 PCS	619303			12.000 FT	

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT	BEND
Z00098169	0001	0001	50.2	41.5	25	H1	45	1/2
Z00098169	0001	0002	50.4	41.0	25	H1	45	1/2

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	0.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.30	0.15	0.00	0.80	0.05	0.00	0.00	NA	NA	NA	0.00	0.00
107310	.77	.24	.26	.12	.87	.08	.17	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/BA UNSA36061 T6511 also conforms to T6-not applicable to other tempers

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. ALUMINUM AND ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF 100% OF ALUMINUM

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this report was inspected and tested and found to conform with applicable specifications. Kaiser's product description set forth in Kaiser's sales acknowledgment form. Kaiser's liability is limited to that set forth in Kaiser's general terms and conditions of sale. Test reports are not to be used for legal purposes.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Number: 00289713

Kaiser Order Number: 6032303

Page 1 of 1



CA-ALL-WHITBY
HOPKINS STREET 504 THE
WHITBY ON L1N 5T1
Canada

CUSTOMER PURCHASE ORDER NUMBER
CA-05-074E-7-07

BIL. OF LADING
1302-08084077;

DATE: 02/08/2006

CSA (1970) 2017 (64) 714

1154 AV. DES TRANSMISSIONS 1007 LITTE
068 101 HAVELBYND
SALIMARIY DE VALLEFIELDOD
1005 51 1
Canada

1154 AV. DES TRANSMISSIONS 1007 LITTE
201 005 BOUTLE COMBUSTIBLE
1154 AV. DES TRANSMISSIONS 1007 LITTE
Canada

	LENGTH	0.007
--	--------	-------

1. 100	2. 100
3. 100	4. 100
5. 100	6. 100
7. 100	8. 100
9. 100	10. 100
11. 100	12. 100
13. 100	14. 100
15. 100	16. 100
17. 100	18. 100
19. 100	20. 100
21. 100	22. 100
23. 100	24. 100
25. 100	26. 100
27. 100	28. 100
29. 100	30. 100
31. 100	32. 100
33. 100	34. 100
35. 100	36. 100
37. 100	38. 100
39. 100	40. 100
41. 100	42. 100
43. 100	44. 100
45. 100	46. 100
47. 100	48. 100
49. 100	50. 100
51. 100	52. 100
53. 100	54. 100
55. 100	56. 100
57. 100	58. 100
59. 100	60. 100
61. 100	62. 100
63. 100	64. 100
65. 100	66. 100
67. 100	68. 100
69. 100	70. 100
71. 100	72. 100
73. 100	74. 100
75. 100	76. 100
77. 100	78. 100
79. 100	80. 100
81. 100	82. 100
83. 100	84. 100
85. 100	86. 100
87. 100	88. 100
89. 100	90. 100
91. 100	92. 100
93. 100	94. 100
95. 100	96. 100
97. 100	98. 100
99. 100	100. 100

520729300

CHRYSDOYANAKI AND KILBORN

CHEMICAL COMPOSITION	
C	P
$\frac{\text{wt}}{\%}$	$\frac{\text{wt}}{\%}$
0.14	0.0094
Mn	S
0.83	$\frac{\text{wt}}{\%}$
	0.027
	Si
	$\frac{\text{wt}}{\%}$
	0.19
	Cu
	$\frac{\text{wt}}{\%}$
	0.28
	Ni
	$\frac{\text{wt}}{\%}$
	0.13
	Cr
	$\frac{\text{wt}}{\%}$
	0.12
	N
	$\frac{\text{wt}}{\%}$
	0.0020
	Nb
	$\frac{\text{wt}}{\%}$
	0.0001

MECHANICAL PROPERTIES			
Elong. ϵ_f	GA inch	UTS ksi	UTS MPa
25.00	8.000	73,680	508
25.00	8.000	72,664	501
			YS 0.2% ksi
			560/58
			553/27
			YS MPa
			580
			581

COMMENTS/NOTES

This grade meets the requirements for the following grades:
 AS184 Grades: A70, A52.9-80, A572-80, A709-76, A709-50
 CSA Grades: 44W, 50W
 AASHTO Grades: M270-76, M270-50
 ASTM Grades: SA70

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the bullets, was melted and manufactured in Canada. CNTR complies with EN 10204-3.1.

SHASHI K. VALLABH
QUALITY DIRECTOR

LEONARDO NUNES
QUALITY ASSURANCE MGR



GERDAU

US N.L. CARTERSVILLE
384 OLD GRASSDALE ROAD NE
CARTERSVILLE, GA 30121
USA

CERTIFIED MATERIAL TEST REPORT

11-08-07

CUSTOMER SHIP TO LES ACIERES TRANSSEC 1997 LTTEE 935 DU HAVRE BLVD SALABERRY-DE-VALENTIEN, QC J6S 5L1 Canada		CUSTOMER BILL TO LES ACIERES TRANSSEC 1997 LTTEE 4054 BOUL LE CORBUSIER LAVAL, QC H7L 5R2 Canada		GRADE GCMULTI	SHAPE / SIZE Flat Bar / 1/2" X 12	DOCUMENT ID 0000005430
SALES ORDER 46299710000010		CUSTOMER MATERIAL N°		LENGTH 20'00"	WEIGHT 4.488 LB	HEAT / BATCH 5504847002
CUSTOMER PURCHASE ORDER NUMBER CA46380FENDIP		BILL OF LADING 1302.0000057320		SPECIFICATION / DATE OF REVISION ASTM A579-14 A572-15 ASTM A614/A36-14 ASME SA-36 ASTM A709-15, AASHTO M270-12 CSA G40.20 136G02.13		
DATE 03/21/2017						

CHEMICAL COMPOSITION									
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Nb
0.16	0.92	0.017	0.021	0.20	0.31	0.11	0.12	0.042	0.001
Y	N	Ph							

CHEMICAL COMPOSITION	
Sn	0.013

MECHANICAL PROPERTIES	
Elong.	GL
23.60	inch
20.50	8.000
	UTS
	73100
	71700
	UTS
	MPa
	504
	494
	YS
	0.2%
	PSF
	51900
	52100
	YS
	MPa
	358
	359

COMMENTS / NOTES
This grade meets the requirements for the following grades:
ASTM Grades: A36, A579-50, A572-50, A709-36, A709-50
CSA Grades: 44W, 50W
AASHTO Grades: M270-36, M270-50
ASME Grades: SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the bill, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

Mackay

BHASKAR YALAMANCHILI
QUALITY DIRECTOR

Phone: (409) 769-1014 Email: Bhaskar.Yalamanchili@gerdau.com

yan.wang

YAN WANG
QUALITY ASSISTANCE MGR.

Phone: (770) 387 5718 Email: yan.wang@gerdau.com

A 6039

T-3212-24

47884

RAPPORT DE TEST MATÉRIEL

Vendu

à : ACIER OUELLETTE INC. DIV SALAVERRY-DE-
Estelle Quenneville
935 du Havre
Valleyfield, QC
J6S 5L1
Canada

Expédier

à : ACIER OUELLETTE INC. DIV SALAVERRY-DE-
Estelle Quenneville
935 du Havre
Valleyfield, QC
J6S 5L1
Canada

N° bon de livraison BL17-01806

Date de document 5/8/2017

Votre n° de commande

AC5434

Notre n° de vente

SO17-00893

Description		3.000 x 2.000 x 283.000 x 0.125 HR A500 B/C									
Heat Number		744888				Made In		Canada			
C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
0.180	0.740	0.003	0.009	0.020	0.039	0.070	0.001	0.006	0.030	0.020	0.002
Yield (Psi)		Tensile (Psi)		ELN.2IN (%)		Certification					
54,500		68,400.00		27.6		ASTM A500 GR B & C					

Les résultats reportés sur ce document représentent les attributs actuels du matériel fourni et indiquent la conformité complète avec toutes les spécifications applicables et les conditions contractuelles.



GERDAU

CANADA WHITBY

1 GERDAU CT

WHITBY ON L1N 3T1

Canada

CERTIFIED MATERIAL TEST REPORT

CUSTOMER SHIP TO LES ACHERS TRANSBEC 1907 LITE 908 DU HAVRE BLVD SALABERRY DE VALLEYFIELD QC J0S 1A1 Canada		CUSTOMER BILL TO LES ACHERS TRANSBEC 1907 LITE 3054 BOULEVARD CORBIER LAVAL QC J7L 5R2 Canada		GRADE GG46LTH	SHAPE / SIZE Angle 7 2X2X1/8	DOCUMENT ID 000007723
CUSTOMER ORDER SALES ORDER 5139135000070		CUSTOMER MATERIAL N°		LENGTH 20'00"	WEIGHT 5,907 LB	HEAT / BATCH 52079366/03
CUSTOMER PURCHASE ORDER NUMBER CA470065SMQ1P		BILL OF LADING 1302-0000062510		SPECIFICATION / DATE OF REVISION ASTM A529-14, A572-15 ASTM A501-14, A501-14, ASME SA-50 ASTM A709-15, ASHTO M270-12 CSA G40.20-13/G40.21-13		
DATE 07/11/2017						

CHEMICAL COMPOSITION							
C	Mn	P	S	Si	CU	Ni	Cr
0.15	0.73	0.016	0.010	0.18	0.29	0.11	0.16
Y	Nb						
0.013	0.001						

MECHANICAL PROPERTIES				YS 0.2% PSF			
Elong.	GA inch	UTS PSI	UTS MPa	512	56522	390	390
23.80	8.000	74120	512	512	56522	390	390
24.40	8.000	74316	512	512	56522	390	390

COMMENTS / NOTES

This grade meets the requirements for the following grades:
ASTM Grades A50, A529-50, A572-50, A709-50, A709-50
CSA Grades 44W, 50W
ASHTO Grades M270-50, M270-50
ASME Grades SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CMTR complies with EN 10204 3.1.

Phaskey

BRASAR VALANANCHILL
QUALITY DIRECTOR

Phone: (416) 769-1011 Email: Phaskey.Valananchill@gerdau.com

Leonardo Nunes

LEONARDO NUNES
QUALITY ASSURANCE MGR.

Phone: (905) 648-8811 EXT 4055 Email: Leonardo.Nunes@gerdau.com



Mathematics 2022, 10, 1000

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bellendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected and, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description of the material, representative of the material and the composition limits and has the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or deletion of data or change in test results shall be made without the written approval of the Quality Department. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per: *R. J. L. L. L.*

Rob Woodall
Director of Manufacturing Development Works

James H. H. H.
Terrence Thom
Quality Assurance Manager

3055128 Ship Date 0 B.L. No. Invoice No. Alcoa No. Item
2016-10-25 11085569 00000 1000853903-1 DPE-53903-01-1
P.O. No./Cont Contract No. Customer Alcoa Item
C73254 Inv# 1 SAMUEL SON & CO LT G041015420R17

Item Description
0.05 IN TK (+0.0000 - .0035) X 48.0 IN W (+.125 - .125) X 144.0 IN LN (+.15625 - .15625) CAT X G041015420R (H) A/T 6061-T6 FLAT SHEET FOR DISTRIBUTORS
TOLERANCE GUARANTEED, AMS4027 REV N ANS1H35.2 REV 2013 EXC_MRK ASME-SB-209 REV 15 EXC_MRK VASTM3209 REV 14
(MARKED) KRAFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4750 LB QDAN TOL +/-
10 * COR D126870 REV 44 CUST REQ 16-11-05
02 *** W/E 16-11-05 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Inspector	Clock Numbers
1	278704	396761	3910	122	PC	47275	27713 27666

Notes for COR: D126870.44
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISTIO N DATED 1997-08-01.

COR: D126870.44 -Specification limits

Temp	Dir	UTS	TYS	BLAD
T6	Long Transv.	Max	KSI	PCT
		Min	42.0	35.0 10

Chemical Composition										Other	Other
		SI	FE	CU	MN	MG	CR	ZN	TI	Each	Total
Alloy 6061	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15
	Min	0.40	0.15			0.8	0.04				REMAIN
Lot: 396761	- Mechanical, Physical, Metallography, Quantometer Results										
	No->		UTS			TYS		ELAD			
Temp	Dir		KSI			PCT					
T6	Long Transv	11	50.2			42.8		12.6			

PAO 165V

JP

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

3055128	0		
Ship Date	B.L. No.	Invoice No.	Alcoa No. Item
2016-10-25	11086569	00000	1000853903-1 DPE-53903-01-1
P.O.No./Govt Contract No.	Customer		Alcoa Item
C73254 Ln#: 1			SAMUEL SON & CO LT G041015420R17

Page 2 of 2

Lot: 396761 - Mechanical, Physical, Metallurgy, Quantumeter Results (cont.)

Cast Number	Chemical - OES							Other	Each	Other	Total
	SI	FE	CU	MN	MG	CR	ZN				
16M0143041	0.65	0.5	0.24	0.06	1.0	0.17	0.01	0.06	< 0.05		< 0.15

This material was melted in the United States or a Qualifying Country (REF DFARS 225.872.1(a)); it was manufactured in the United States

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bellendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that said material is representative of the material and the composition limits and has the mechanical properties shown on the face of this sheet. This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or omissions on this certificate by any recipient may be punished as a felony under applicable law.

Rob Woodall
Director of Manufacturing Development Work

Timothy Thompson
Quality Assurance Manager

Page 1 of 2

3055128 Ship Date 0 B.L. No. Invoice No. Alcoa No. Item
2016-10-25 11086565 00000 1000053903-1 DPE-53903-01-1
P.O. No./Govt Contract No. Customer Alcoa Item
C73254 En# 1 SAMUEL SON & CO LT G041015420R17

Item Description
0.05 IN TK (+0.0000 -0.0035) X 48.0 IN W (+.125 - .125) X 144.0 IN LN (-.15625 -.15625) CAT X G041015420R (N) A/T 6061-T6 FLAT SHEET FOR DISTRIBUTORS
TOLERANCE GUARANTEED VAMS4027 REV N ANSIN35.2 REV 2013 EXC_MRK ASME-SB-209 REV 15 EXC_MRK VASTMB209 REV 14
(MARKED) KRAFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/-
10 * COR D126870 REV 4* CUST REQ 16-11-02 *** W/E 16-11-05 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Inspector	Clock Numbers
1	278704	396761	3910	122	PC	47275 27713	27666

Notes for COR: D126870.44
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED 1997-08-01.

COR: D126870.44 -Specification Limits

Temp	Dir	UTS	TYS	ELAD
T6	Long Transv.	Max	KSI	PCT
		Min	42.0	35.0 10

Chemical Composition

Chemical Composition											Other	
	Max	SI	FE	CU	MN	MG	CR	ZN	TI	Each	Total	Aluminum
Alloy 6061	0.40	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15	
Lot: 396761	Min			0.15		0.8	0.04					REMAIN
- Mechanical, Physical, Metallurgy, Quantometer Results												

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bellendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material meet the composition limits and that the mechanical properties shown on the face of this sheet. This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made in this certificate. This document is the property of Alcoa Inc. and its use, reproduction or other use without the written permission of Alcoa Inc. is prohibited. This document is the property of Alcoa Inc. and its use, reproduction or other use without the written permission of Alcoa Inc. is prohibited.

Ed A. L. L. L.

Rob Wood

Director of Manufacturing Davenport Works

Quality Assurance Manager

Page 2 of 2

Lot: 356761 - Mechanical, Physical, Metallurgy, Quantometer Results (cont.) -----

50.1	42.8	12.6
50.2	42.8	12.5
50.5	43.4	12.3
50.1	42.7	12.9
50.2	42.8	12.8
50.2	42.8	12.6
50.6	43.5	12.2
50	42.3	12.8
50.1	42.4	13.1
50	42.5	12.7

Cast Number	Chemical	SI	FE	CU	MN	MG	CR	ZN	TI	Other	Each	Other	Total
16W0143041	Actuals	0.65	0.5	0.24	0.06	1.0	0.17	0.01	0.06	< 0.05	< 0.15		

This material was melted in the United States or a Qualifying Country (REF DPAKS 225.872.1(a)); it was manufactured in the United States

305128	0	Invoice No	Alcoa No	Item	DPE-53903-01-1
Ship Date	B.L. No.	11086569	00000	1000853903-1	
2016-10-25				Alcoa Item	
P.O. No./Govt Contract No.	Customer				
C73254	SAWUET, SON & CO LT				

3436



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

PO 3538
44476

Certificate: 244878 3
Customer: 007035 501

Date: 12/08/2016 Page: 1
Steel: 304
Finish: 2B

Your Order: 786645
NAS Order: PN 0074023 03

Corrosion: ASTM A262/15 A.180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED, UNS 30400
ASTM A240/15b, A486/15, A666/15, ASME SA240/15, SA480/15, SA666/15
CHEM ONLY ON FOLLOWING ASTM: A276/15, A479/15, A484/15, A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
MS 513J XGRK, MIL-S-5053D AMENDS (X CROWN BEAMS)
NACE MR0175/ISO 15156-3:2009 A, MR0103/07, Q98766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is free of Mercury Contamination. No void repairs.
EN 10204:2004 3.1+ ROHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DPMs Compliant

Product Id	Coil #	Std #	Thickness	Width	Weight	Length	Mark	Places	Commodity Code
05208T AA	05208T AA		.0300	48.0000	16,690	COIL	9	1	74355225

CHEMICAL ANALYSIS									
CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JPL(Japan)									
HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %
2082	US	.0411	18.1210	.4495	1.7280	.3085	.0752	8.1155	.0270
		SI %							
		.2290							



MECHANICAL PROPERTIES

Product Id#	Coil #	1 of F	4 UTS KSI	20C KSI	2% YS KSI	20C ELONG % 2"	Tail Hard	Grain No.	Hard R45T
05208T AA	05208T AA	F	104.09	50.76	43.71	56.50	13.00		61.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK 12/08/2016

Manufacturer / Fabricante / Herstellerwerk 		Type of document / Tipo de documento / Art der Prüfbescheinigung INSPECTION CERTIFICATE CERTIFICADO DE INSPECCION ABNAHMEPRÜFZEUGNIS according to / de acuerdo con / nach EN 10204-3.1		Document number / N° de certificado / Bescheinigungs-Nr. 0000253804 / Page / Pagina / Seite 1 / 1																					
I Steel Drive; P.O. Box 13000; Calvert, AL 36513-1300		Customer's order number / N° de Pedido Cliente / Kundenbestell-Nr. C17332 Manufacturer's works order no. / N° de Pedido Manufactura / Werksauftrag-Nr. 901213420 / 002 Delivery note no. / N° de Entrega / Lieferschein-Nr. 85464320 / 010 Product / Producto / Erzeugnis SHEET/HOJAS/BLECH																							
Terms of delivery / Condiciones de entrega / Lieferbedingungen ASTM A240/A240M-16a, ASME SA-240 Sec. II part A Ed.2015 ASTM A480/A480M-16b, ASME SA-480 Sec. II part A Ed.2015 ASTM A666-15		Steel grade and quality / Acero / Stahlsorte und Gütegruppe TYPE 304L/304																							
Customer's material no. / N° de material del cliente / Kundenmaterial-Nr. 7081588		Product dimensions (Thickness / Width / Length) / Dimensiones (Espesor / Ancho / Largo) / Maße des Erzeugnisses (Dicke / Breite / Länge) 1.52 mm x 1,219.20 mm x 2,438.40 mm 0.0600 inch x 48.0000 inch x 96.0000 inch		Steelmaking procedure / Proceso de manufact. / Herstellart AOD																					
Finish / Acabado / Ausführung 11c / 2B																									
Packing-No. / N° de Empaque / Pack-Nr. 7081588	No of pieces / Piezas / Stückzahl 34	Actual weight / Peso actual / Ist-Gewicht 2,601 lb / 1,180 kg	Coil No. / Bobina No. / Band-Nr. 790960	Heat No. / Colada / Schmelze 514212	Sample No. / N° de muestra / Proben-Nr. 1000461411																				
Sum / Suma / Summe 34		2,601 lb / 1,180 kg																							
Heat / Colada / Schmelze 514212	Country of Heat / País de colada / Erzeugungsort USA	Chemical composition / Composición Química / Chemische Zusammensetzung <table border="1"> <thead> <tr> <th>% C</th> <th>% Si</th> <th>% Mn</th> <th>% P</th> <th>% S</th> <th>% Cr</th> <th>% Mo</th> <th>% Ni</th> <th>% N</th> <th>% Cu</th> </tr> </thead> <tbody> <tr> <td>0.027</td> <td>0.38</td> <td>1.29</td> <td>0.025</td> <td>0.0010</td> <td>18.05</td> <td>0.21</td> <td>8.03</td> <td>0.067</td> <td>0.27</td> </tr> </tbody> </table>				% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu	0.027	0.38	1.29	0.025	0.0010	18.05	0.21	8.03	0.067	0.27
% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu																
0.027	0.38	1.29	0.025	0.0010	18.05	0.21	8.03	0.067	0.27																
Sample Position / Local de la muestra / Probenlage TRANSVERSE																									
Inspection lot / Lote de Inspección / Prüflot 1000461411	Y90.2% PSI / MPa 43,510 / 300	TS PSI / MPa 97,316 / 671	EL A2" % 57.7	HRB 84																					
1000461412	42,784 / 295	97,026 / 669	58.1	84																					
Resistant to intergranular corrosion / Resistente contra corrosión inter-granular / Beständig geg. interkorn. Korrosion: ASTM A 262 PRACTICE E - Sample Acceptable Dimensions-surface / Dimensiones-Superficie / Maße-Oberfläche: OK Test of identity (spectrum analysis) / Control de identidad (análisis espectroscópico) / Verwechslungsprüfung (Spektralanalyse): OK																									
Heat Treatment: Solution annealed 1920 °F Min, Air or water cooled Bending test O.K. No welding or weld repairs were performed on this material No intentional additions of Mercury compounds were made or used Free of radioactive contamination EU RoHS Directive 2011/65/EU Compliant Product manufactured in the USA Country of Heat as per ISO 3166-1																									
Originator of the document / Originador del documento / Aussteller der Bescheinigung Outokumpu Stainless USA, LLC An ISO 9001: 2008 certified company EU PED 97/23/EC, Annex I, 4.3 certified Certificate is generated automatically / Certificado es generado automáticamente / Das Zeugnis wurde elektronisch erstellt		The information provided is a true copy of data on file / Los valores mostrados corresponden a los datos archivados / Die angegebenen Werte entsprechen den gespeicherten Daten  Androm F. J. J. J. Printer: +1 251 829 3402 Name of expert / Nombre del experto / Name des Sachverständigen		Date of issue and validation / Fecha de emisión y validación / Datum Ausstellung / Bestätigung 02/27/2017 This document shall not be altered or reproduced, except in full. Falsification, falsification, or false statements or omissions may be prosecuted by law.																					

P998707

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MC617GR4250
 DATE: SEP 27 2017

PO / BATCH NO.: 0037737/M38546

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.250
 THICKNESS RECEIVED: 4.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u>	N	<u>ASTM B221</u>
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	<u>HT#201707789</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>5</u> <u>9-89</u> DATE: <u>SEP 27 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R(D.DDD)
DIA.

DAS

WHERE "D DDD" = DIAMETER IN INCHES
5
9-89
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-08-09
AP

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6R
REV. B	
SHEET 1 OF 1	
SCALE	
TITLE	6061-T6 ROUND BAR
NTS	

COPYRIGHT © 2001 BY DART AEROSPACE LTD.
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER DISCLOSED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: AL60146B1,000X12,000

PO / BATCH NO.: 0037737/M138546

DATE: SEP 27 2017

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1"
 THICKNESS RECEIVED: 1"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	HT #201704837
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u>	SIGNED OFF BY: _____		
DATE: <u>SEP 27 2017</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | 9-89

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DS	DRAWING NO.	REV. B
MFG. APPR.	DS	M6061T6B	SHEET 1 OF 1
APPROVED	DS	TITLE	SCALE
DE APPR.	DS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR FOR REPRODUCTION IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 1 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
SEP 12 2017

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						

1	M1018R1.00	1018-1025 ROUND BAR 1.00	9/15/2017		10.00	\$2.47	\$24.74
			Yes		f		
			9/15/2017				

MATERIAL: AISI 1018-1025 ROUND BAR AS PER MIL-S-7097 OR ASTM A108

Line Total: \$24.74

2	M4140H-R8.000	4140 round bar 8.000	9/15/2017	FN	1.00	\$355.23	\$355.23
			Yes		f		
			9/15/2017				

PLEASE CUT ALL OF MAT'L TO 1-1/4" THICK = 9 PCS

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: AISI 4140 H ROUND BAR PER

AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

Line Total: \$355.23

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 2 of 8

Order From :

VC-CAM002

Ship To :

DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

3 MT-HRS-P14.000X14.000X0.750 Hot Rolled Steel Plate 14" x 14" x 0.75" 9/15/2017 FN 2.33 \$40.73 \$95.03
Yes sf
9/15/2017

2 PCS 0.750" X 14" X 14"

MAT'L: HOT ROLLED STEEL PLATE AS PER ASTM A36, ASTM A1011 OR 44W OR ASTM A1018

Line Total:

\$95.03

4 M1018B0.250x0.750 1010-1025 Steel Bar .250 x .750 9/15/2017 12.00 \$1.00 \$11.94
Yes f
9/15/2017

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570
OR CSA G40-21, 38W/44W/50W/60W/70W

Line Total:

\$11.94

5 M1018B0.375x5.000 1010-1025 Steel Bar .375 x 5.000 9/15/2017 6.00 \$10.52 \$63.12
Yes f
9/15/2017

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570
OR CSA G40-21, 38W/44W/50W/60W/70W

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017

SEP 17-9-18



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 3 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$63.12

6 M1018A3.000W.250 M1018A3.00XW.250 9/15/2017

Yes

9/15/2017

10.00

f

\$3.10

\$30.95

Engineering to approve - No Mil Spec

Line Total: \$30.95

7 M6061T6R4.250 6061-T6 Round Bar 4.250 9/15/2017

Yes

9/15/2017

3.00

f

\$65.00

\$195.00

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

ASTM B221

Line Total: \$195.00

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 4 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

8	M6061T6B1.000X12.000	6061-T6 Bar 1.00 x 12.00	9/15/2017	12.00		\$45.86	\$550.37
			Yes	f			
			9/15/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$550.37

9	M6061T6B0.750X12.000	6061-T6 BAR .750" X 12.000"	9/15/2017	12.00		\$34.35	\$412.23
			Yes	f			
			9/15/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$412.23

10	71900-90	MILD STEEL ANGLE 5" X 3" x 1/4" WALL	9/15/2017	40.00		\$3.69	\$147.71
			Yes	f			
			9/15/2017				

ENG.TESTING

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 5 of 8

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$147.71

Deliver To: IAN

11 71900-90

MILD STEEL PLATE 1/2" X 12" 9/15/2017

20.00

\$11.82

\$236.44

Yes

f

ENG.TESTING

9/15/2017

Line Total: \$236.44

Deliver To: IAN

12 71500-15

MILD STEEL SQUARE TUBING 2" X 3" X 1/8" WALL 9/15/2017

120.00

\$3.13

\$375.13

Yes

f

WELDING TABLE

9/15/2017

Line Total: \$375.13

Deliver To: CARL

13 71500-15

MILD STEEL ANGLE 2" X 2" X 1/8" WALL 9/15/2017

100.00

\$0.97

\$97.27

Yes

f

WELDING TABLE

9/15/2017

8017-9-18

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37737

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 6 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Line Total: \$97.27

Deliver To: CARL

14 71500-15

MILD STEEL ANGLE 1"
X 1" X 1/8" WALL

9/15/2017

100.00

\$0.47

\$47.16

Yes

f

WELDING TABLE

9/15/2017

Line Total: \$47.16

Deliver To: CARL

15 71500-15

ALU PLATE 5/8" X 36" X
111"

9/15/2017

2.00

\$1,099.84

\$2,199.68

Yes

Each

WELDING TABLE

9/15/2017

Line Total: \$2,199.68

Deliver To: CARL

16 71400-15

6061T6 SHEET .051"

9/15/2017

128.00

\$2.46

\$314.27

Yes

sf

WELDING TEST

9/15/2017

Line Total: \$314.27

Deliver To: CARL

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 7 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

17	71400-15	6061T6 SHEET 1/8"	9/15/2017	96.00	\$6.46	\$619.71
			Yes	sf		
	WELDING TEST		9/15/2017			

Line Total: \$619.71

Deliver To: CARL

18 71400-15

304 SHEET 22GA

9/15/2017

96.00

\$3.62

\$347.83

WELDING TEST

9/15/2017

Line Total: \$347.83

Deliver To: CARL

19 71400-15

304 SHEET 16GA

9/15/2017

32.00

\$6.51

\$208.28

WELDING TEST

9/15/2017

Line Total: \$208.28

Deliver To: CARL

20 71400-15

4130N SHEET .049"

9/15/2017

32.00

\$36.41

\$1,165.00

WELDING TEST

9/15/2017

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note:

9/12/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 8 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Deliver To: CARL

21 71401-45

PROCUREMENT
QUALITY CLAUSES

9/15/2017

No

9/15/2017

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Line Total: \$1,165.00

\$0.00 \$0.00

Line Total: \$0.00

PO Total: \$7,497.09

PO Instructions: quote: sou0055811,sou0056398,
sou0056649, sou0056468

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 3

Change Date: 9/12/2017